

MOHAVE COUNTY MINER.

VOL. 1.

MINERAL PARK, A. T., SUNDAY, MAY 6, 1883.

NO. 27.

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County.

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Court Commissioner—W. H. Cretton.
Probate Judge—Chas. Atchison.
Public Administrator—J. J. Hyde.
County Surveyor—Otto F. Kuenen.
S. p. r. v. s.—W. H. Hardy, W. F. Grounds and M. W. Henkle.
C. l. k. of the Board of Supervisors—H. Buckham.

PROFESSIONAL CARDS.

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Mineral Park, A. T.

Swelling and Bottom-Breaking Ground.

Most miners have on occasions had trouble with swelling or bottom-breaking ground. In some camps there is more trouble from this than in others, of course, according to the nature of the formation. When it occurs, however, it requires very skillful and careful timbering to prevent accident. The cause of bottom-breaking ground is given by Mr. Henry S. Drinker, in his elaborate work on "Tunneling," when occurring downward, as being in the majority of cases due to hidden cavities or sink holes as in limestone formation. Breaks at bottom occurring upwards, he says are the cases where the ground is so heavy, that though the sides and roof may be firmly held, the material is so running as to be semi-liquid, and therefore transmits the side pressure around, and so forces up the tunnel or drift bottom where it is not properly secured by an invert.

In one of the tunnels of the Cincinnati Southern R. R., the curious fact was noted by the resident engineer, that it would not only fall from the roof, but would not stay down in the bottom. The bottom was a hard tough sandstone in layers of four to eight inches thick. These layers would, with a rumbling sound, spring up and break into pieces with a report like a small blast. This would happen sometimes after no work had been done in the tunnel for several days, so that it could not be attributed to the effects of powder. One or two layers would generally come up, breaking off at the wall and then the springing ceases. These ledges came up with such force, that men sitting on them, would be thrown over. In one instance a sill, on which posts for timbering were set, was put in on the bottom; the sill extended seven and a half feet beyond the last post, which was lagged and packed overhead, so that at the post, the sill was immovable. One of these ledges springing up, forced this sill—a piece of 8x12 of white oak—up out of its position, six inches in seven and a half feet.

Similar phenomena have been observed in the granites at Munson, Mass., and in the lower carboniferous sandstone of Ohio. It is probable that the cause of the break is owing to a state of tension existing in the rock or place; then, when the strata are cut, a tendency to wrong results. In cutting the Sutor tunnel much trouble was occasionally experienced from bottom breaks, more, however, from swelling ground. This was usually met in the roof by extra timbering, while the bottom was simply allowed to rise until it reached a certain point where it is cut down again repeatedly.

At a point 17,890 feet from the tunnel mouth they entered a belt of swelling ground composed of porphyry and clay, which was very difficult to penetrate. The rock yielded to such a degree that timbers 14x12 inches thick would be broken three hours after they were placed, and, although a gang of men were kept at work easing up behind the timbers, they were continually breaking, and it was exceedingly difficult to make any progress. Not only did the timbers break but at times the posts would press through the caps. For a long time they could suggest no means to withstand the pressure, but finally a new plan of timbering was devised which was successful.

They first placed the ordinary 12x12 inch square set of timbers, and then made an excavation above the cap, in which they placed two angle braces meeting at an apex. By this means the great pressure from above was prevented from coming directly on the caps, it being taken up by these angle braces, upon which it was exercised first. They were thus pressed gradually into the sides of the tunnel until the apex at which they met was finally forced down close to the caps. When that time arrived they were dug out and placed again. In this manner the main timbers were saved, and since they placed two inch lagging on top of these braces and three inch lagging on top of the main caps, the men were protected from falling rocks, and the work could progress without delay. The lagging above the upper set was purposely lighter than that over the main lower set, so as to allow it to break and give the ground a chance to swell behind. Extra posts were placed in order to protect the main posts, but no sills

were used in such ground, for they would be constantly breaking. They simply allowed the ground in the bottom to swell up until say eighteen inches above the proper level, when it was cut down and the railroad track re-laid. After passing through the swelling ground at the point referred to they had to cut it down seven times, that is to say, the bottom of the tunnel at this point was cut down seven times eighteen inches, or ten and a half feet. The most of the swelling ground extended for about 300 feet; the total distance of bad ground extended over 100 feet.—Mining and Scientific Press.

Hon. C. F. Manderson, the new United States Senator from Nebraska, gives to a Chicago reporter a brief and compact sketch of the high license liquor law of his State, the pattern after which the new Missouri law is largely framed: "It is," says the Senator, "the best liquor law in the United States." The license for cities is \$1,000 a year, and in small towns \$5,000 a year. Before it went into effect Omaha had 160 saloons, "and some of them were pretty bad," remarks the Senator; now the number has been reduced to 90, a little more than one-half. When there were 160 saloons paying \$100 a year the revenue they yielded was only \$16,000; now the 90 under the new law yield \$90,000 a year. The new law is of great benefit to the body politic, in that "it has cut off all the little low doggeries, which were the ones that made the trouble, and the character of the men who keep saloons are better." The bond required of them is \$5,000, and one saloon-keeper is not allowed to go on the bond of another. "We feel good over the failure of prohibition in Kansas and Iowa," remarks the Senator, "for our high license system gives us control of the liquor traffic and lessens many of its evils."

The advent of the iron horse in Mohave county has caused quite a boom in the mining and other industries of that section. On account of her isolation from the main route of travel, her rich resources have lain dormant, but now as travel will be made through her borders, people will flock in there, and push their idle mines to a paying basis. The land ordering the Colorado river is susceptible of raising all kinds of fruits, cereals, etc., and if taken hold of by industrious farmers, would in a few years be transformed into a productive waste. There are several mines in the county that have lain idle for years, not on account of the richness of the ore, but through the management of men who were placed in charge. That county has probably suffered more from that class of men than any other in the Territory. Parties have run her mines and mills, who were better qualified to the vocation of measuring culicis, but now that a new era is dawning upon her it is to be hoped that she will profit by it, and become one of the most prosperous of counties.—Phoenix Gazette.

It is "the thing" for the newly arrived American immediately to rush out and buy a hat, an umbrella, a long tailed English Newmarket coat and at once assume an English accent and intonation—say he will be "at home" such an hour, pronounce either ether; talks of nothing but "puns" and of millions as glibly as dollars. He affects everything English the height of his ambition is to be taken for an Englishman; and there he sits and boasts and brags and makes an ass of himself, and all the time is under the impression that he is creating a sensation. He generally is, but of quite a different kind from what he supposes.—London Writer.

A young physician who had long worshipped at a distance was one day called upon to attend her. He found her suffering from no particular dangerous malady, but she wanted him to prescribe for her nevertheless; so he took her hand and said impressively: "Well, I should prescribe—I should prescribe that—you—get—married!" "Oh goodness!" said the interesting invalid: "who would marry me, I wonder?" "I would," snapped the doctor, with all the voracity of a six foot pickerel. "You!" exclaimed the maiden. "Yes," "Well doctor, if that is the fearful alternative, you can go away and let me die in peace."—Wrightsville (Ga) Recorder.

How the Cincinnati Enquirer found this out is a mystery: "And what in the name of goodness is this?" asked Mrs. David Davis, as the senator lodged something into the room and dropped it at her feet. "This is my shirt, darling; and I will be greatly obliged if you will sew on a button for me." "David Davis," said the lady, sternly, "when you bring me your shirt, I will sew on a button for you with pleasure, as becomes a fond and dutiful wife; but just now, sir, I must insist upon your removing this circus canvas from my apartment."

A Boston honeymoon: They were a Boston couple, who had been married but a few weeks and had just gone into housekeeping. As the husband stood at the area door one morning, with the market basket in his hand, his bride threw her arms around him and said: "Do you, indeed love me so very, very much, Bradford?" "Banker Hill Monument may fall," he answered, with enthusiasm, "but my love will always stand." "Well then," she exclaimed, kissing him "don't forget the beans!"—Brooklyn Eagle.

A diner out, who has had more than his share of the wine, is carefully feeling his way home at night when he unfortunately stumbles against the circular railing which surrounds a statue. After having gone round it about seven times the hopelessness of his situation flashes upon him with vividness and he sinks down upon the pavement outside with a despairing shriek: "The scoundrels! They've shut me in here!"—Paris Paper.

The belief that the people of Pompeii cultivated watermelons is strengthened by the discovery in the course of recent excavations there, of the remains of a man with his hands clasped across his stomach. There was nothing however, to indicate that he was of African descent.—Brooklyn Eagle.

Thurman, when Senator, attended a dinner, and after eating heavily, seized a decanter and pouring out a wine glass of liquor, toasted Morgan, saying: "This is very fair sherry." Morgan replied, "Most excellent." A friend near by tasting it, said: "Why, gentlemen, this is brandy neat. I congratulate you on your palates."

There is a young lady up in Columbia county who is six feet tall and is engaged to be married. The man who won her did it in these words: "Thy beauty sets my soul aglow; I'd wed the right or wrong; man wants out little here below but wants that little long."—Irvington (Ga) South ern.

A book agent tried to sell a Cincinnati Irishman a copy of "Hiawatha." Pat looked at the title and then at the cover, "Higher wather, is it?" says he; "be jabbers the wather in these diggins is quite high enough, one b'y, for any decent mon; so be off wid yez!"—New York Advertiser.

Three gunboats are cruising off Cork, Ireland, waiting to intercept a vessel from America having a consignment of infernal machines.

Estray Notice.

To all whom it may concern: Notice is hereby given that I have taken up as estrays the following described animals, to-wit: One sorrel horse, baldfaced, branded 74, has been running with my stock and watering at my corral for the past four months. One sorrel male about 15 hands high, about ten years old, brand is too much blurred to be ascertained—has also been running with my stock for about four months; and that I have posted a notice and made the necessary affidavit before James J. Hyde, Justice of the Peace of Mineral Park Precinct, as required by law. NICHOLAS CANTO, Mineral Park, A. T., April 27th, 1883.

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